## CLASS AB DIGITAL TO ANALOG CONVERTER/LINE DRIVER

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## CROSS-REFERENCE TO RELATED APPLICATIONS

6.720,798

[0001]This application is a Continuation of U.S. Patent Application No. 10/158,193; Filed: May 31, 2002, Titled: CLASS AB DIGITAL TO ANALOG CONVERTER/LINE DRIVER, inventors: Mulder et al., which is a Continuation-in-Part of Application No. 10/153,709, Filed: May 24, 2002, Titled: DISTRIBUTED AVERAGING ANALOG TO DIGITAL CONVERTER TOPOLOGY, Inventors: MULDER et al.; and is related to Application No. 10/158,774, Filed: May 31, 2002; Titled: ANALOG TO DIGITAL CONVERTER WITH INTERPOLATION OF REFERENCE LADDER, MULDER et al.; Application No. 10/158,595, Filed: May 31, 2002, Titled: HIGH SPEED ANALOG TO DIGITAL CONVERTER, Inventor: Jan MULDER; and Application No. 10/158,773, Filed: May 31, 2002, Inventor: Jan Mulder; Titled: Subranging Analog to Digital Converter With MULTI-PHASE CLOCK TIMING, Inventors: van der GOES et al., all of which are incorporated by reference herein.

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## BACKGROUND OF THE INVENTION

Field of the Invention

[0002] The present invention relates to line drivers, and more particularly to high-speed, low-distortion line drivers.

Related Art

[0003] FIG. 1 shows a conventional output driver cell of a line driver currently employed in (Gigabit) Ethernet products. Each cell includes two differential pairs, enabling tri-state operation. Transistors M1a through M1d are cascodes, implemented using thick-oxide transistors. Transistors M3a and M3b implement the tail current sources of the two differential pairs, each

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